

CLAIMS

1. Device for the selective metering of seed intended  
essentially for sowing and/or reseeding soils and  
5 of additives intended essentially for improving  
and/or treating the soils;  
the said device comprising essentially:
  - a) a hopper (1) intended to contain the said seed  
or the said additives;
  - 10 b) a unit for the selective metering (2, 3, 4) of  
the seed or of the additives originating from  
the said hopper;
  - c) means (5, 6) of transferring the seed or the  
additives originating from the said metering  
15 unit, into furrows created in the soil by means  
of a scarification unit provided with a  
plurality of discs (7);characterized in that the unit for the selective  
metering of the seed and additives originating  
20 from the hopper comprises in combination:
  - a) a selective metering roll (2) comprising,  
longitudinally, a plurality of successive zones  
(Z) each subdivided into at least two zones  
(Z1) and (Z2) provided with means (2A), (2B)  
25 and (2C) suitable for metering the seed or the  
additives according to their particle size;
  - b) a means (3) comprising a plurality of openings  
(3A), separated by solid parts (3B), suitable,  
by the lateral movement of the said means (3),  
30 for making the seed or additives originating  
from the hopper (1) communicate either with the  
zone (Z1), or with the zone (Z2);
  - c) a means (4) comprising a plurality of openings  
(4A), separated by solid parts (4B), suitable,  
35 by the lateral movement of the said means (4),  
for blocking off, to a greater or lesser  
extent, the openings (3A) of the means (3).

2. Device according to Claim 1, characterized in that the means (2A) consists of axial flutes (2A) disposed on the periphery of the entire width of the zone (Z1).
- 5 3. Device according to Claim 1, characterized in that the means (2B) consists of the smooth external casing, of the roll (2), which occupies a part of the width of the zone (Z2) and in that at least the part of the said roll concerned by the said casing is made out of dielectric material charged with electric particles by the rubbing, during the rotation of the roll (2), of a means (8), of the sweeping brush type.
- 10 4. Device according to any of Claims 1 and 3, characterized in that the means (2C) consists of spot facings formed on the periphery of the part of the width of the zone (Z2) not occupied by the means (2B).
- 15 5. Device according to Claim 1, characterized in that the means for the transfer of the seed or of the additives originating from the metering unit, into the furrows made in the soil by the scarification unit, consist of a funnel (5) fitted with a tube (5A) linked to a hollow sowing finger (6).
- 25 6. Device according to Claim 5, characterized in that each hollow sowing finger (6) comprises a hollow sliding extension the travel of which is suitable to enable its bottom extremity to transfer the seed or the additives as near as possible to the furrows.
- 30 7. Device according to Claim 5, characterized in that each hollow sowing finger (6) comprises an arm (9) suitable for parting the grass on either side of the furrows.
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8. Device according to Claim 5, characterized in that  
each hollow sowing finger (6) comprises sliding  
capillary tubes suitable for transferring liquid  
additives as close as possible to the furrows.  
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9. Device according to Claim 8, characterized in that  
the capillary tubes are supplied by solenoid  
valves controlled by a throughput computer and a  
distributor controlled by forward travel.  
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10. Device according to Claim 1, characterized in that  
the speed of rotation of the distribution roll (2)  
is controlled by the speed of forward travel of  
the machine carrying and pulling the set of  
elements constituting the selective metering  
device.  
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11. Device according to any one of the preceding  
claims, characterized in that the set of elements  
constituting the metering device is linked to the  
carrying and pulling machine by means of a  
hydropneumatic suspension.  
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